Agent's Docket No.: CBL-104/DIV

AMENDMENTS TO THE CLAIMS

Kindly cancel claim 21, and amend claims 23-26 as shown in the listing of claims below. This listing of claims will replace all prior versions, and listings of claims in the application.

LISITING OF CLAIMS

1	Claim 21. (cancel)
1	Claim 22. (currently amended) The epitaxial layer of claim 21 An epitaxial layer
2	comprising a metal nitride comprising a metal selected from the group consisting of
3	gallium, aluminum and indium, wherein the epitaxial layer is formed by hydride vapor-
4	phase deposition on a buffer layer and wherein the buffer layer comprises a nitride of an
5	element of groups III or IV of the periodic table formed on a substrate by a metal organic
6	chemical vapor deposition (MOCVD) technique, wherein said epitaxial layer is removed
7	from said buffer layer.
1	Claim 23. (currently amended) The epitaxial layer of claim [[21]] 22, wherein said epitaxial
2	layer and the buffer layer together comprise an epitaxial layer/buffer layer
3	heterostructure, and the epitaxial layer /buffer layer heterostructure is removed from the
4	substrate.
1	Claim 24. (currently amended) A semiconductor heterostructure, comprising:
2	a) a nitride buffer layer, said buffer layer formed by MOCVD; and
3	b) [[b)]] a nitride epitaxial layer deposited on said buffer layer, said epitaxial layer
4	formed by HVPE
5	wherein said epitaxial layer is removed from said buffer layer.
1	Claim 25. (original) The heterostructure of claim 24, wherein said buffer layer comprises a
2	material selected from the group consisting of AlN, InN and GaN, and wherein said
3	buffer layer has a thickness in the range of from about 1.0 nanometer to 1.0 micron.

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- Claim 26. (original) The heterostructure of claim 25, wherein said epitaxial layer comprises
 a metal nitride comprising at least one metal selected from the group consisting of Ga, Al
 and In and wherein said epitaxial layer has a thickness in the range of from about 1.0
 micron to 500 micron.
 - Claim 27. (previously presented) An epitaxial layer, comprising:
 - a) a buffer layer formed on a substrate by CVD;
 - b) a cap layer formed on the buffer layer; and
 - c) an epitaxial layer formed on the cap layer by hydride vapor-phase epitaxy.
- Claim 28. (original) The epitaxial layer of claim 27, wherein the epitaxial layer comprises a nitride comprising an element selected from group III and group IV of the periodic table.
- Claim 29. (original) The epitaxial layer of claim 27, wherein the substrate comprises a material selected from the group consisting of sapphire, silicon, silicon carbide, gallium arsenide, zinc oxide and magnesium oxide; and the buffer layer comprises aluminum nitride.
- Claim 30. (original) The epitaxial layer of claim 28, wherein the cap layer and the epitaxial layer have substantially the same composition.
- Claim 31. (previously presented) The epitaxial layer of claim 27, wherein the cap layer and the epitaxial layer each comprise a nitride comprising an element selected from the group consisting of group III and group IV elements of the periodic table.
- 1 Claim 32. (original) The epitaxial layer of claim 27 wherein the cap layer is formed by MOCVD.